 $i \geq 1, j \geq 1$ Fig. 1

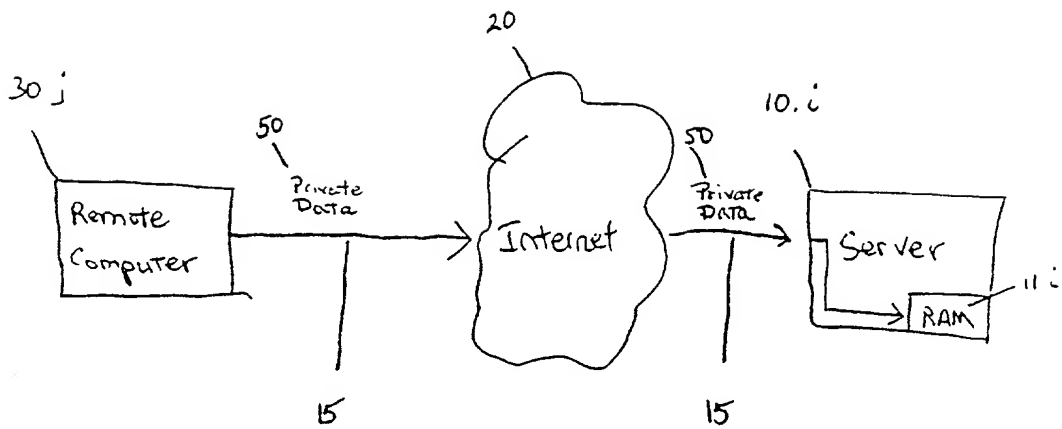


Fig. 2a

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70

DATA FORM FOR USER

NAME

EMAIL

Password

(Click when Done)

71

72

73

74

FIG. 2b

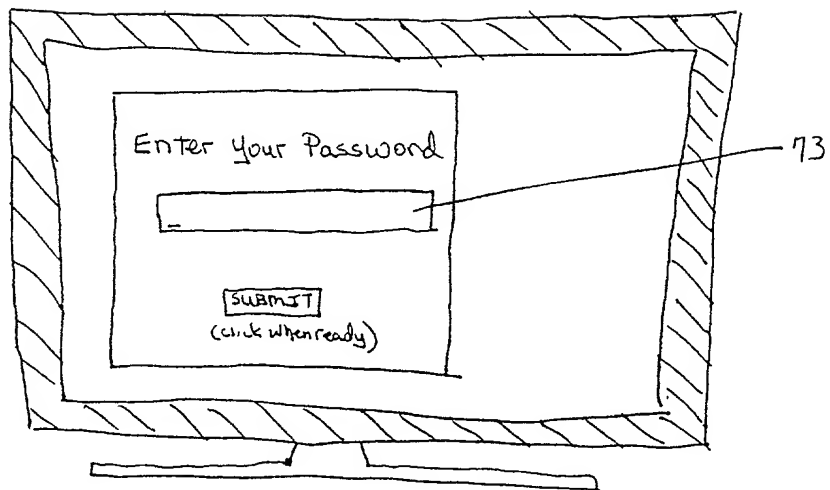
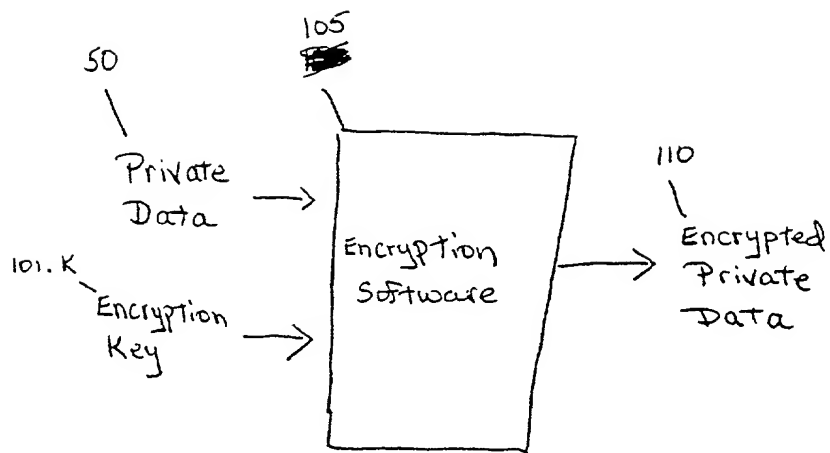


FIG. 2c



$K \geq 1$

Fig. 3

User Key 100

G	o	o	s	e		G	o	s	s	a	g	e	1	2	3
---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---

v\_set 300

F	o	o	t	B	a	l	l
---	---	---	---	---	---	---	---

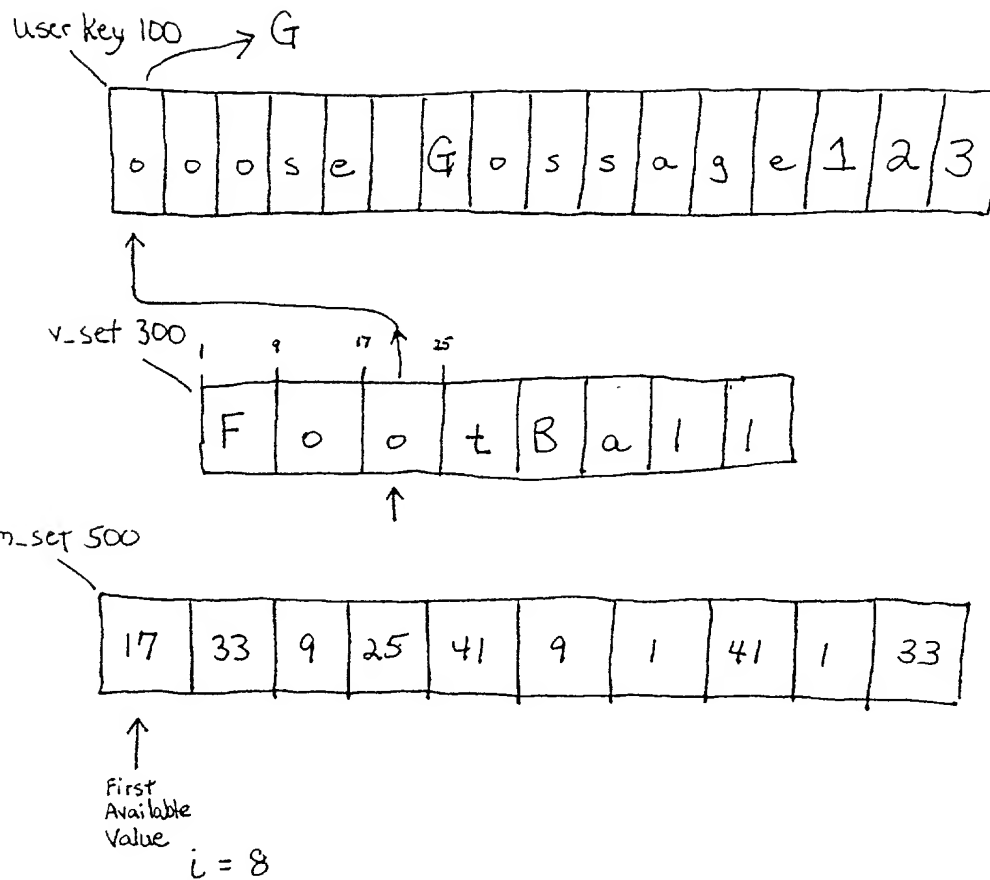
m\_set 500

17	33	9	25	41	9	1	41	1	33
----	----	---	----	----	---	---	----	---	----

$$i = 8$$

$$K = n * i + 1, \text{ where } n = 0 \text{ initially} \\ \text{and } n = n + 1 \text{ after replacement}$$

FIG. 4a (Pre-Replacement)



$$K = n * i + 1, \text{ where } n = 0 \text{ initially}$$

and  $n = n + 1$  after replacement

K = 1

FIG. 4b (Replacement,  $n=0$ )

User Key 100 → 0

0	B	0	s	e	G	0	s	s	a	g	e	1	2	3
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

v-set 300

	9	17	25	33	41				
F	o	o	t	B	a	l	l		

m-set 500

17	33	9	25	41	9	1	41	1	33
----	----	---	----	----	---	---	----	---	----

Next Available Value

$L = 8$

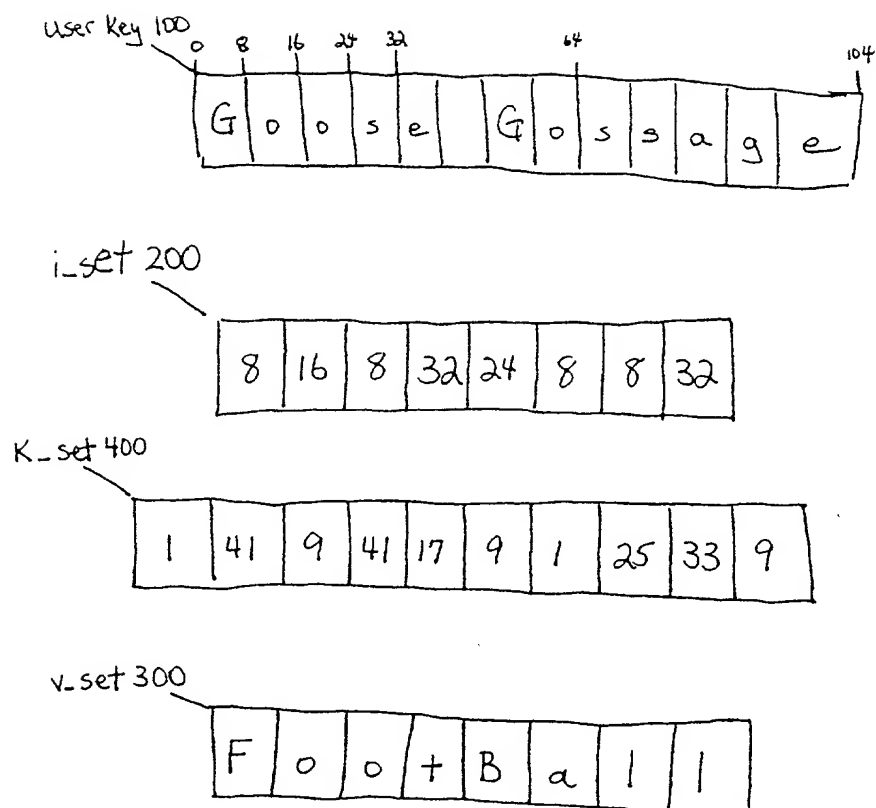
$K = n * L + 1$ , where  $n = 0$  initially  
and  $n = n + 1$  after replacement

$K = 9$

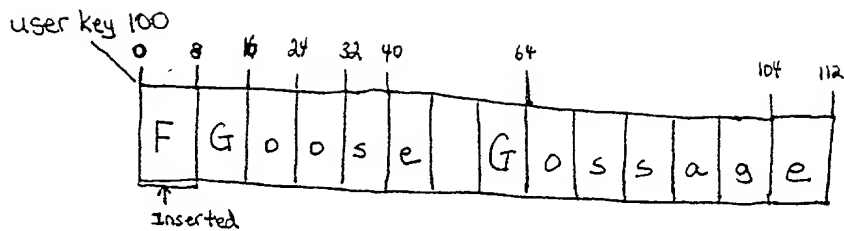
FIG. 4c (Replacement,  $n = 1$ )



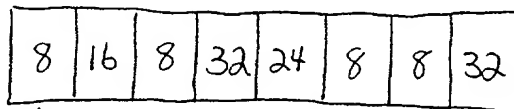
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5a  
FIG. ~~5a~~ (Pre-Insertion)

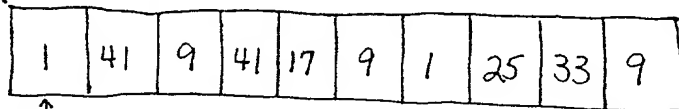


i-set 200



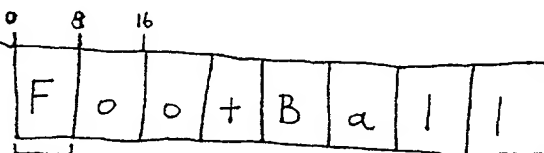
K-set 400

↑ First Available  $\{L=8\}$



↑ First Available

v-set 300



↑ First Available  
i bits

FIG. 5b (First Insertion)

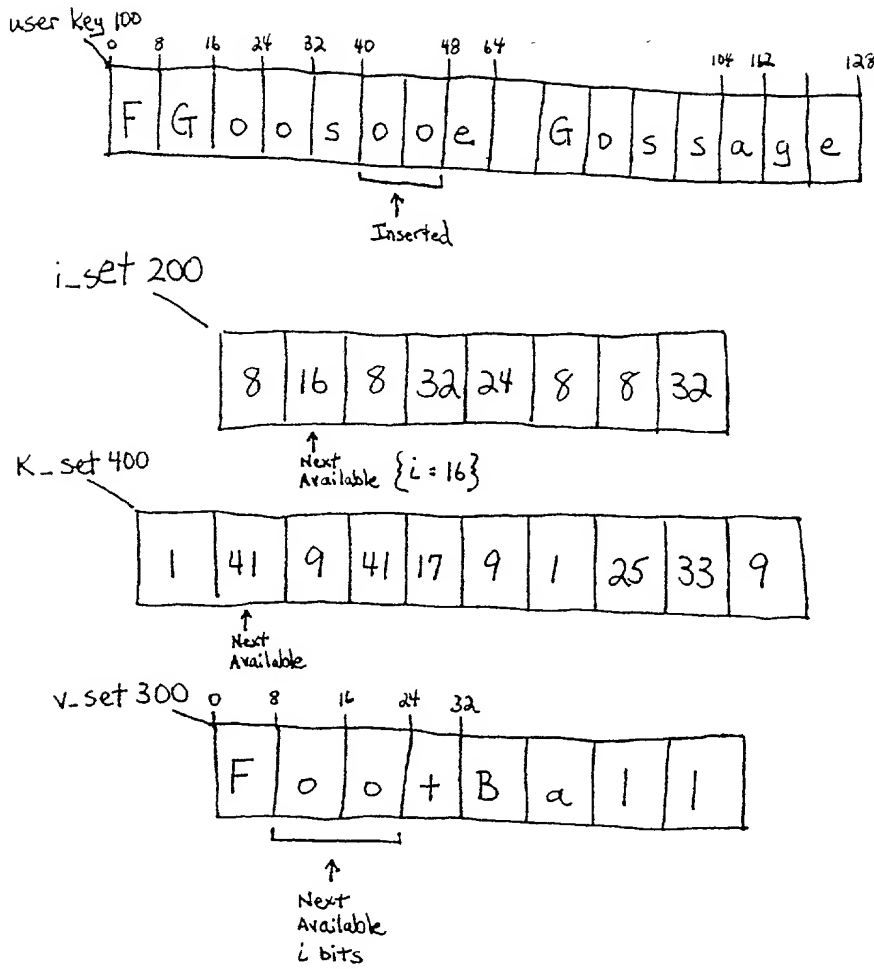
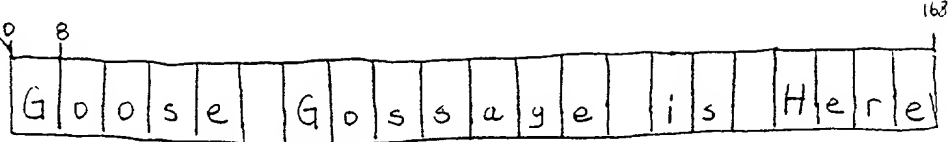
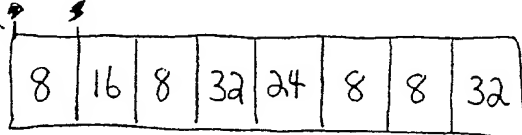


FIG. 5c (Second Insertion)

User Key 100



i\_set 200



K\_set 400

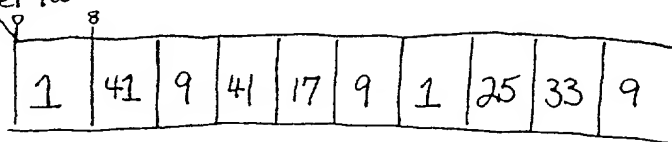


FIG. 6a (Pre-Deletion)

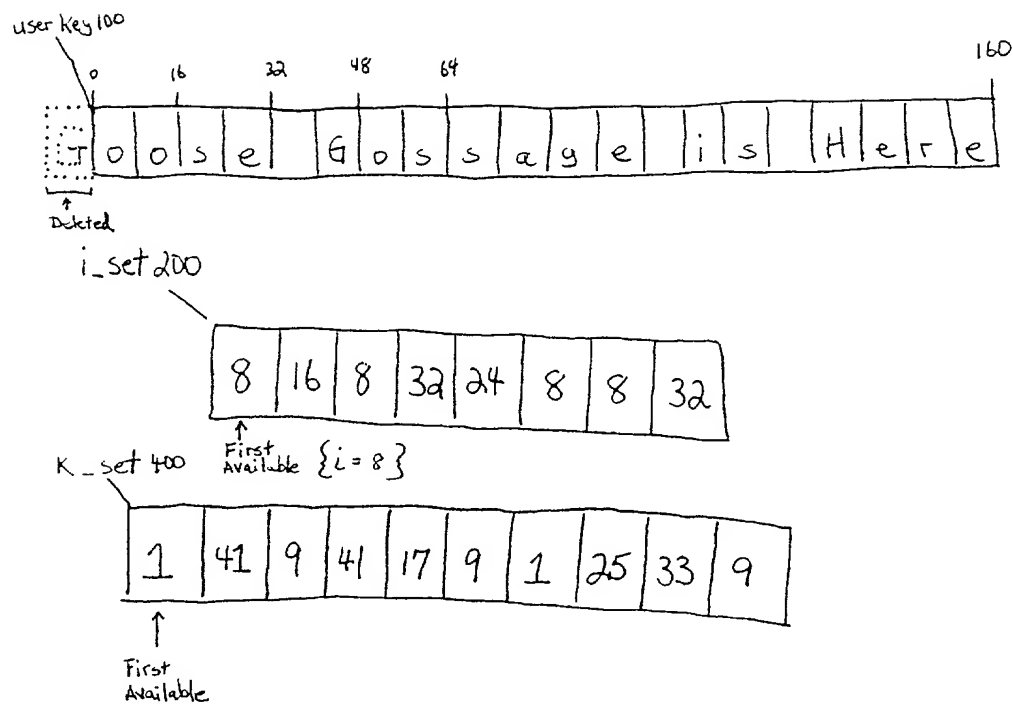


FIG. 6b (First Deletion)

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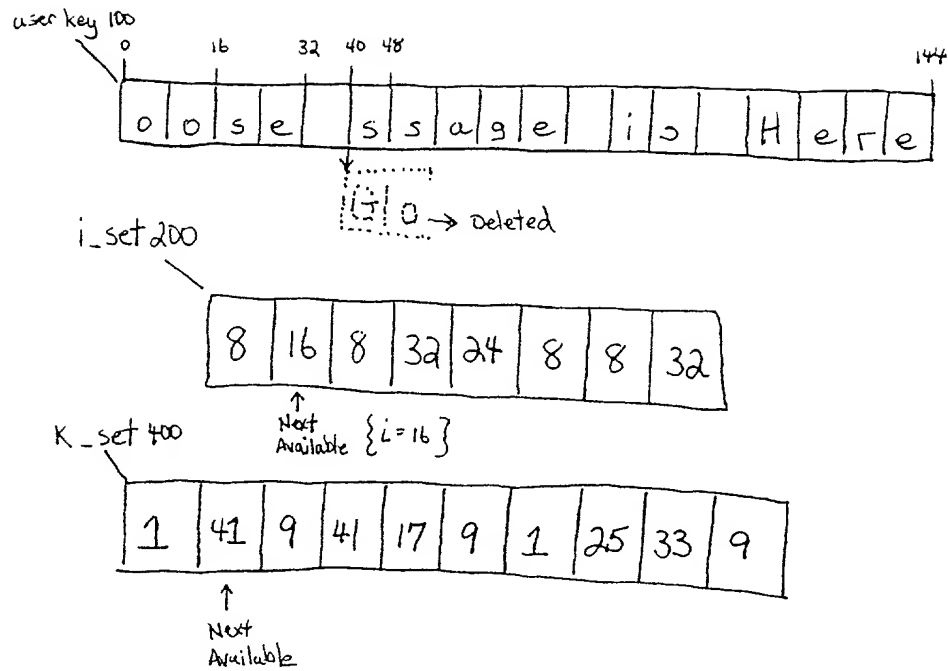
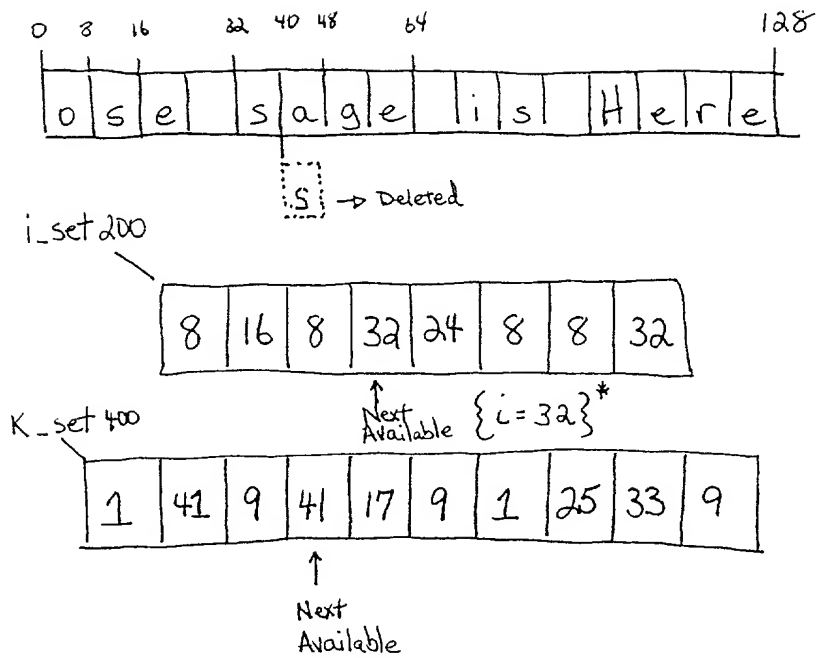


FIG. 6c (second Deletion)

Hand-drawn diagram illustrating a linked list structure for a hash table:

- User Key 100** points to a long array of 16 slots. The first slot contains 'o', the second 's', the third 'e', and the fourth is empty. The rest of the array contains 's', 's', 'a', 'g', 'e', ' ', 'i', 's', ' ', 'H', 'e', 'r', 'e'. An arrow points from the first slot to a 'Deleted' label.
- i\_set 200** points to a smaller array of 8 slots containing the values 8, 16, 8, 32, 24, 8, 8, 32. An arrow points from the third slot (value 8) to a 'Next Available {i=8}' label.
- K\_set 400** points to a long array of 10 slots containing the values 1, 41, 9, 41, 17, 9, 1, 25, 33, 9. An arrow points from the third slot (value 9) to a 'Next Available' label.



$$\begin{aligned}
 & \text{if } (u-i) < e \\
 & \text{then } i = i - (e - [u-i]) \\
 & i = 32 - (128 - (136 - 32)) = 8
 \end{aligned}$$

FIG. 6e (Fourth Deletion).



[illegible]

FIG. 7a (Pre-Rearrangement)

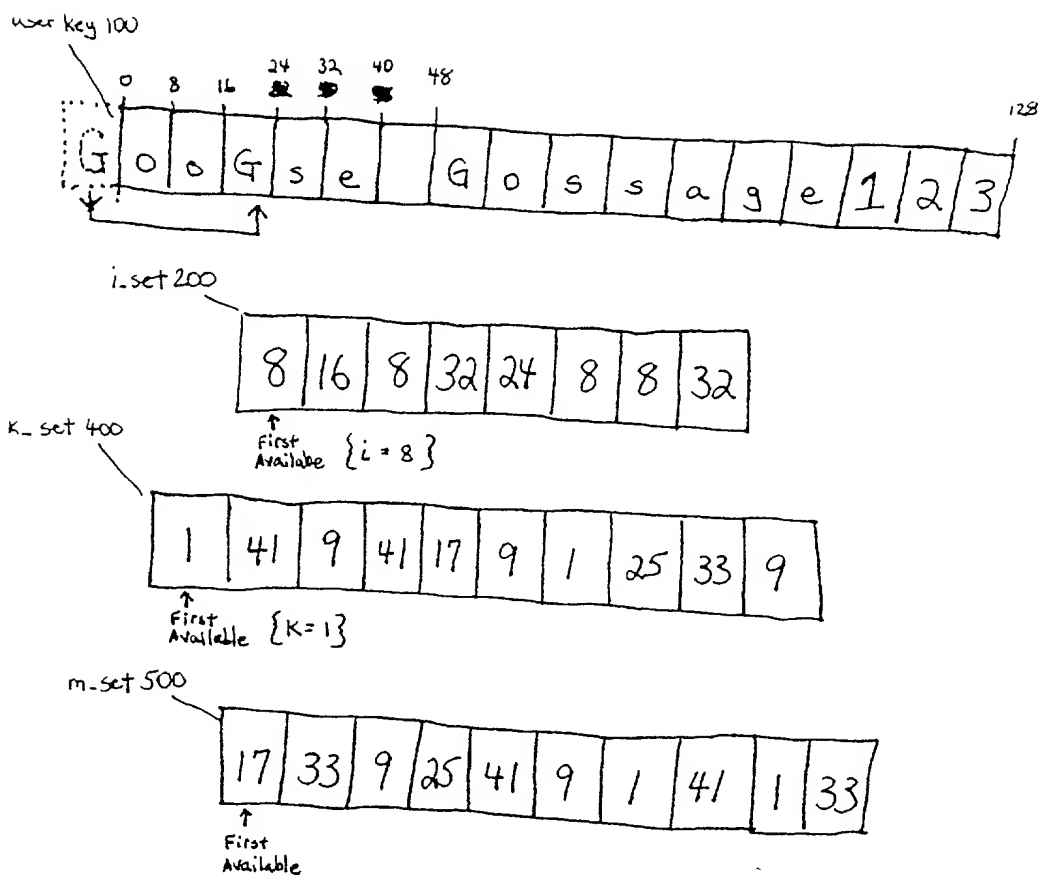


FIG. 7b (First Rearrangement)

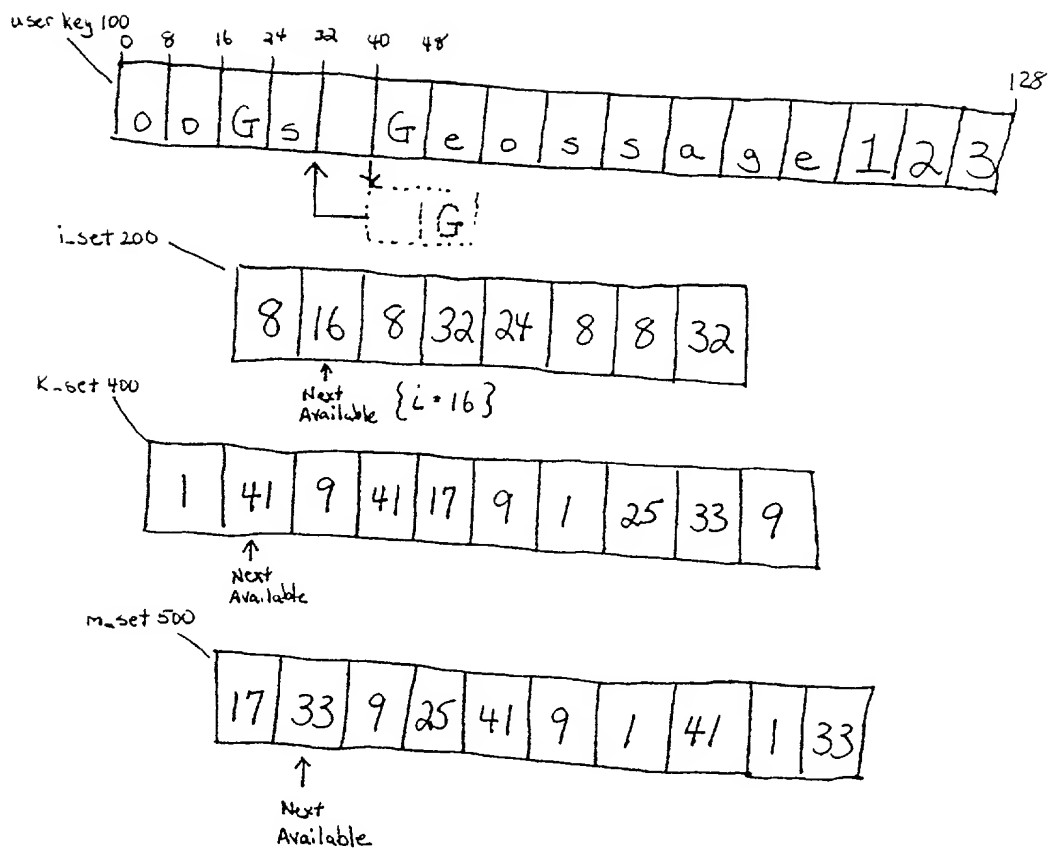


FIG. 7c (Second Rearrangement)

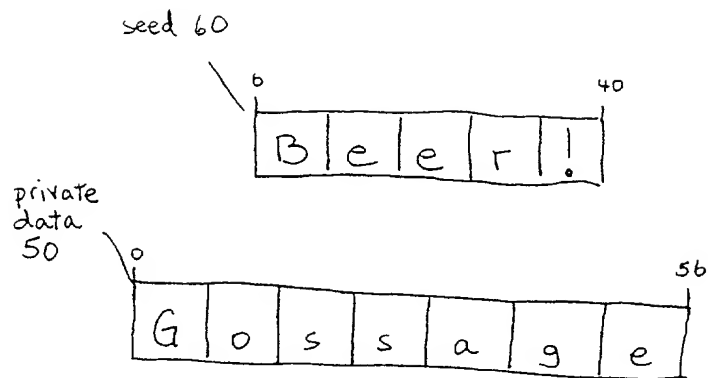


FIG. 8a (Pre-Seeded)

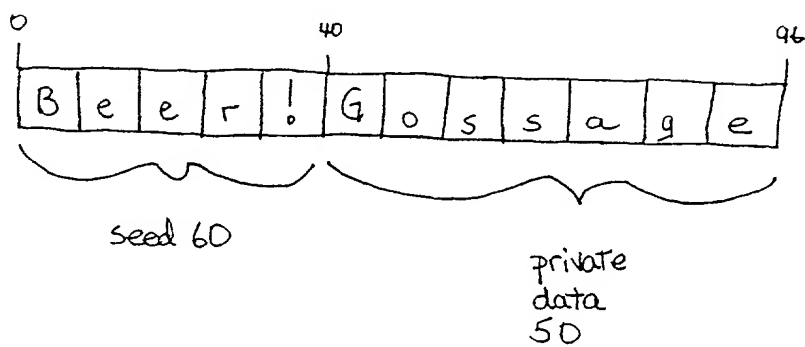


FIG. 8b (Seeded)

Cookie 300

Name	"ywi"
Value	"3/4M}7c□C÷□" <i>alt</i>

301 302 110

FIG. 9

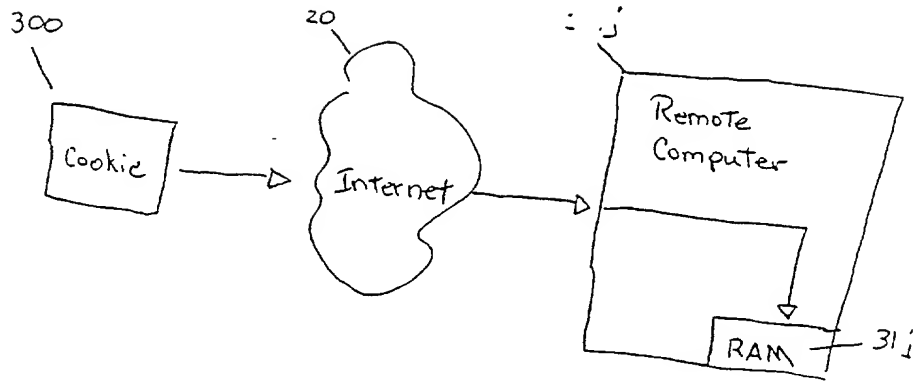


Fig. 10a

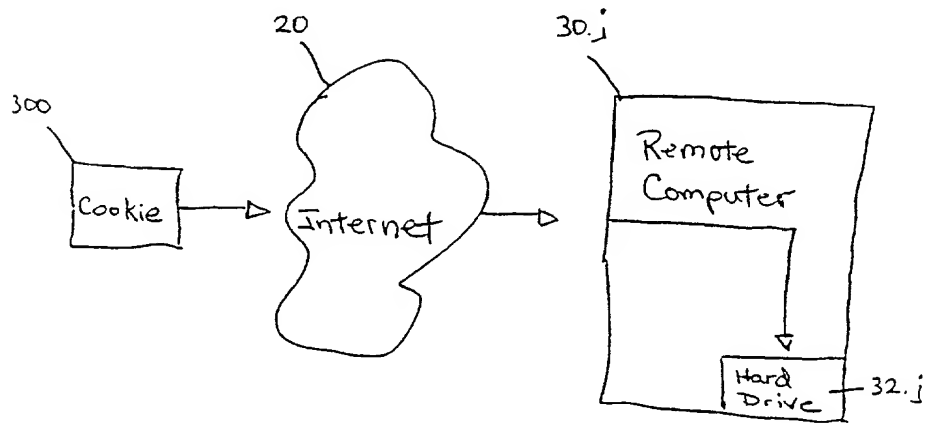


Fig. 10b

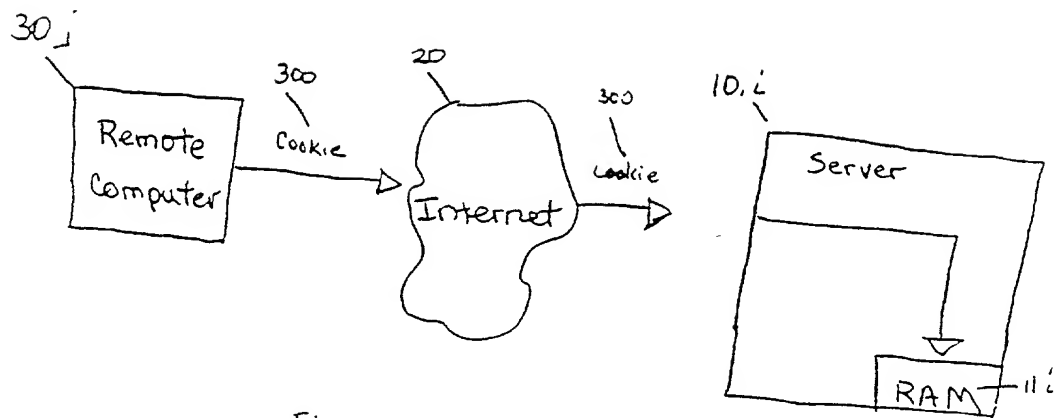
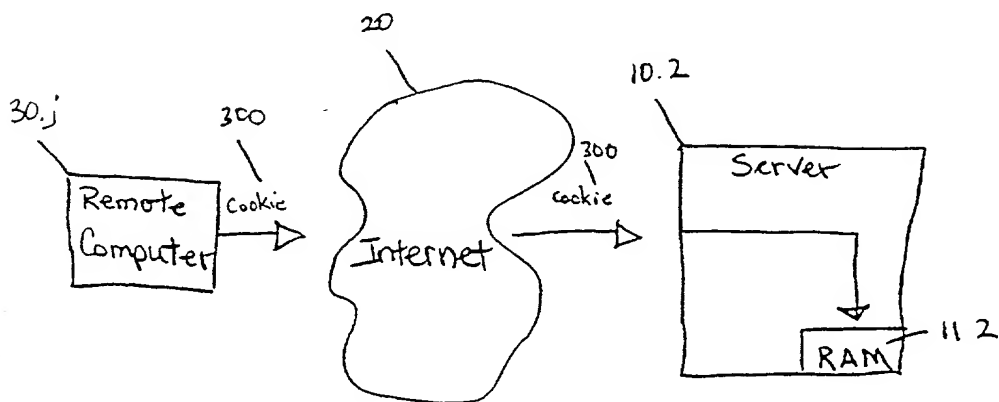


Fig. 11a  
~~FIG. 11a~~



~~FIG. 11b~~ FIG. 11b

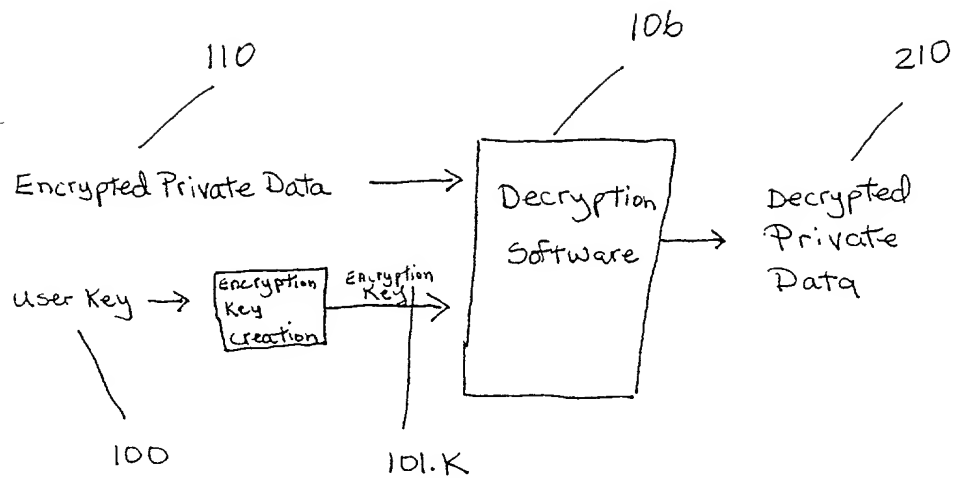


FIG. 12